ENVIRONMENTAL CHEMISTS

Date of Report: 02/28/02 Date Received: 02/14/02

Project: Metro Self Monitor, PO#M87493

Date Extracted: 02/21/02 Date Analyzed: 02/21/02

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	<u>Chromium</u>	Copper	<u>Nickel</u>	Zinc
M87493 202091-01	0.30	0.41	0.42	0.12
Method Blank	< 0.05	<0.05	<0.05	<0.05

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Date of Report: 02/28/02 Date Received: 02/14/02

Project: Metro Self Monitor, PO#M87493

QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 202039-01 (Duplicate)

					Relative	
		Reporting	Sample	Duplicate	Percent	Acceptance
	Analyte	Units	Result	Result	Difference	Criteria
14	Chromium	mg/L (ppm)	0.16	0.18	12	0-20
1	Copper	mg/L (ppm)	0.34	0.32	6	0-20
	Nickel	mg/L (ppm)	0.12	0.17	34 a	0-20
	Zinc	mg/L (ppm)	0.07	< 0.05	nm	0-20

Laboratory Code: 202039-01 (Matrix Spike)

WAS A PINE	Reporting	Spike	Sample	% Recov	ery % Recov	ery Acceptant	ce RPD
Analyte	Units	Level	Result	MS	MSD	Criteria	(Limit 20)
Chromium	mg/L (ppm)	2	0.16	94	98	80-120	4
Copper	mg/L (ppm)	2	0.34	92	92	80-120	0
Nickel	mg/L (ppm)	4	0.12	93	94	80-120	1
Zinc	mg/L (ppm)	2	0.07	95	98	80-120	3

Laboratory Code: Laboratory Control Sample

		Reporting	Spike %	6 Recovery	y % Recove	ry Acceptan	ce RPD
Analyte	North Artes	Units	Level	LCS	LCSD	Criteria	(Limit 20)
Chromium		mg/L (ppm)	2	108	107	80-120	1
Copper		mg/L (ppm)	2	104	104	80-120	0
Nickel		mg/L (ppm)	4	106	105	80-120	-1
Zinc		mg/L (ppm)	2	107	107	80-120	0

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 28, 2002

DUPLICATE COPY

INVOICE #02ACU0228-2

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project Metro Self Monitor, PO#M87493 - Results of testing requested by Gerry Thompson for material submitted on February 14, 2002.

FEDERAL TAX ID #(b) (6)

267091) SAI	MPLE CHAIN OF CUSTODY	L	M9 2/14/02 BIZ
Send Report To TERRID Thompson Company ALASKAN OPPEN WORKS Address 628 S. Handard 87	PRÓJECT NAME/NO. METRO SEC Mon Jan	PO# M 87493	Page # of TURNAROUND TIME Standard (2 Weeks) RUSH_ Rush charges authorized by:
City, State, ZIP SEATTLE WA 9834 Phone # 206-382-8329 Fax # 206-387-4709	REMARKS		SAMPLE DISPOSAL Dispose after 30 days Return samples Will call with instructions

	Page #	of	
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	SAMPLE	DISPOSAL	
	SAMPLE I		
		30 days	

						ANALYSES REQUESTED											
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Chicy will	a.			Notes	
M87493	0	2/4/6	10:00	HO	1							J					
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Friedman & Bruya, Inc. 3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by	GEROCO Thompson	ACW	2/14/02	1/00A
Received by:	Michael Erahl	FiBine	V	12:00A
Relinquished by:				
Received by:				

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

February 28, 2002

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 14, 2002 from your Metro Self Monitor, PO#M87493 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU0228R.DOC